Registration

For registration information, please call:

National Laboratory Training Network - Pacific Office
800-536-NLTN

Workshop Location

Both workshops will be held at:

San Diego County Public Health Laboratory
Auditorium
3851 Rosecrans Street
San Diego, CA 92186

National Laboratory Training Network
Pacific Office
California Department of Health Services
2151 Berkeley Way, Room 803
Berkeley, CA 94704

First Class Mail

NATIONAL LABORATORY TRAINING NETWORK

PRACTICAL DIAGNOSTIC PARASITOLOGY

JULY 21, 2000

(01PA22)

JULY 22, 2000

(01PA23)

sponsored by:
NATIONAL LABORATORY TRAINING NETWORK
PACIFIC OFFICE

hosted by:
SAN DIEGO COUNTY
PUBLIC HEALTH LABORATORY

APHL
ASSOCIATION OF PUBLIC HEALTH LABORATORIES

The National Laboratory Training Network is a training system sponsored by the Association of Public Health Laboratories and the Centers for Disease Control and Prevention.

Program Description

For the 4th consecutive year, the National Laboratory Training Network - Pacific Office, in conjunction with the San Diego County Public Health Laboratory, is pleased to offer another quality workshop for clinical laboratory scientists of Southern California. This year's course is a two part introduction into the diagnosis of parasitic diseases that might be encountered during the examination of stool and blood specimens in clinical and public health laboratories in California.

The first day (01PA22) will cover specimen collection and processing. The lecture and hands-on demonstrations will concentrate on basic microscopy, direct examination, concentration techniques, and trichrome staining of permanent smears. Acid-fast staining, fluorescent antibody staining, and enzyme immunoassay techniques will also be discussed.

The second day (01PA23) will cover the microscopic detection and identification of intestinal protozoan helminthes, and malarial parasites. Most of the second day will be spent preparing and examining wet mounts and permanent trichrome stained smears to help develop the skills necessary to detect and identify the common parasites found in stool specimens. Blood smears will also be examined to detect and identify blood parasites (malaria and babesia).

Who Should Attend

This program will be of benefit to clinical and public health microbiologists, medical technologists/technicians and other health care providers who may be called upon to perform microscopic analysis of stool and blood for human parasites. Both experienced and inexperienced laboratorians are encouraged to attend.

Faculty

Richard C. Alexander, M.S., M.P.H., Director, Contra Costa County Public Health Laboratory, Martinez, CA.

Laboratory Assistant

Esperanza Alfaro, B.S., Public Health Microbiologist, Contra Costa County Public Health Laboratory, Martinez, CA.

Facilitators

Marguerite Oates, M.P.A., MT(ASCP)SBB, Regional Coordinator, National Laboratory Training Network - Pacific Office, Berkeley, CA.

Stephanie Paula, B.S., State Training Coordinator, California Department of Health Services, Berkeley, CA.

Preliminary Program

July 21, 2000 (01PA22)

8:30 am	Registration
9:00 am	Welcome, Introduction & Overview
9:10 am	Lecture: Why Do Parasitology in Today's Clinical Laboratory?
9:45 am	Lecture: Basic Microscopy
10:00 am	Laboratory: Calibration of Microscopes
10:30 am	Break
11:00 am	Lecture: Direct Examination of Wet Mounts
11:30 am	Laboratory: Examination of Direct Specimens
12:30 pm	Lunch
1:30 pm	Lecture: Concentration Techniques
2:15 pm	Laboratory: Examination of Concentrated and Flotation Concentrated Specimens
3:00 pm	Break
3:30 pm	Lecture: Permanent Stained Smears - The Trichrome Stain
3:45 pm	Laboratory: Examination of Stained Smears
4:00 pm	Lecture: Acid-Fast Staining, Fluorescent Antibody Staining, and EIA Techniques for Detection and Identification of Selected Parasites
4:30 pm	Laboratory: Examination of AF & FA Stained Smears, EIA
4:45 pm	Evaluation
5:00 pm	Adjournment

Course Objectives

At the conclusion of the workshop, participants will be able to:

1) Discuss the role diagnostic parasitology plays in today's clinical laboratory environment.
2) Properly adjust and use a microscope.
3) Correctly calibrate a microscope.
4) Outline common pitfalls encountered in the direct examination of stool specimens.
5) Correctly perform a direct examination of a stool specimen.
6) Enumerate the steps for performing the trichrome, acid-fast, and fluorescent antibody staining techniques.
7) Examine trichrome, acid-fast, and fluorescent antibody stained specimens.

Preliminary Program

July 22, 2000 (01PA23)

8:30 am	Registration
9:00 am	Welcome, Introduction & Overview
9:10 am	Nematodes, Cestodes, Trematodes
10:30 am	Break
11:00 am	Amoebae
12:30 pm	Lunch
1:30 pm	Flagellates and Ciliates
3:00 pm	Break
3:30 pm	Sporozoa, Coccidia & Microsporidia
4:45 pm	Evaluation
5:00 pm	Adjournment

Course Objectives

At the conclusion of the workshop, participants will be able to:

1) Correctly recognize and identify the following amoebae: *E. histolytica, E. dispar, E. hartmanni. E. coli. E. nana, I. butschlii* & *B. hominis.*
2) Correctly recognize and identify the following flagellates and ciliates: *G. lamblia, C. mesnili, D. fragilis, T. hominis, E. hominis, R. intestinalis* & *B. coli*.
3) Correctly recognize and identify the following blood sporozoa: *P. vivax, P. falciparum, P. malariae, P. ovale* & *Babesia* spp.
4) Correctly recognize and identify the following coccidia and microsporidia: *C. parvum, C. cayetanensis, I. belli, Sarcocyctis* spp. & Microsporidia.
5) Correctly recognize and identify the following intestinal worms: *A.* lumbricoides, *E. vermicularis, A. duodenale, N. americanus, S. stercoralis, Trichostrongylus* spp., *T. trichiura, C. philippinensis, D. latum, D. caninum, H. nana, H. diminuta, T. solium, T. saginata, F. buski, F. hepatica, Schistosoma spp., C. sinensis* & *P. westermani*.

Continuing Education Units

Continuing education credits will be offered based on **6.0 hours** of instruction per day. The NLTN-Pacific Office is an approved provider of continuing education for California medical laboratory licensees (accreditation #000022). These programs qualify for **6.0 contact hours per day** of continuing education for California Clinical Laboratory licensees. A total of **12** hours may be earned.